

What is claimed is:

1. A method of recording graphic data on a recording medium, comprising the steps of:

(a) receiving graphic data including a plurality of
5 graphic objects; and

(b) organizing the plurality of graphic objects and color control information into a PES (Packetized Elementary Stream) packet and recording the PES packet on the recording medium, wherein the color control information is used in common for
10 screen display by the plurality of graphic objects.

2. The method of claim 1, wherein the plurality of graphic objects are an object set that is to be displayed on a single video page.

3. The method of claim 1, wherein the color control
15 information includes a global palette table and a global transparency array that defines transparent grade of every graphic object included in the PES packet.

4. The method of claim 1, wherein said step (b) slices the PES packet, converts each slice to a transport packet and
20 records the transport packets on the recording medium.

5. The method of claim 4, wherein said step (b) further converts inputted video and/or audio stream to transport packets, and multiplexes them with the transport packets including the graphic objects and recording the multiplexed
25 transport packets on the recording medium.

6. The method of claim 1, wherein said step (b) inserts a decoding time stamp (DTS) and a presentation time stamp (PTS) for the graphic objects while organizing the PES packet.

7. The method of claim 1, wherein said step (b) inserts display effect information for at least one graphic object while organizing the PES packet.

8. The method of claim 7, wherein said display effect
5 information includes time information of display start and end of any of the graphic objects.

9. The method of claim 8, wherein the time information is expressed in the number of ticks and has value of a multiple of N ticks where the N is the number of ticks for while a single
10 video frame keeps displayed.

10. The method of claim 1, wherein a structure for one of the graphic objects comprises an ID of object, an ID of actual image data, and actual image data.

11. A recording medium including video and/or audio and
15 graphic data, wherein:

the video and/or audio and graphic data are recorded in the form of transport packets; and

a PES (Packetized Elementary Stream) packet made from some of the transport packets containing the graphic data
20 includes a plurality of graphic objects and color control information that is used in common for screen display by the plurality of graphic objects.

12. The recording medium of claim 11, wherein the plurality of graphic objects are an object set that is to be
25 displayed on a single video page.

13. The recording medium of claim 11, wherein the color control information includes a global palette table and a global transparency array that defines transparent grade of every

graphic object included in the PES packet.

14. The recording medium of claim 11, wherein the PES packet includes a decoding time stamp (DTS) and a presentation time stamp (PTS) for the included graphic objects.

5 15. The recording medium of claim 11, wherein the PES packet comprises display effect information for at least one graphic object included therein.

16. The recording medium of claim 15, wherein said display effect information includes time information of display
10 start and end of any of the graphic objects.

17. The recording medium of claim 11, wherein a structure for one of the graphic objects comprises an ID of object, an ID of actual image data, and actual image data.

18. An apparatus of recording graphic data on a recording
15 medium, comprising:

first means for receiving video and/or audio data, and graphic data including a plurality of graphic objects;

second means for organizing the video and/or audio data into a series of PES (Packetized Elementary Stream) packets and
20 organizing the received plurality of graphic objects and color control information into a PES packet, wherein the color control information is used in common for screen display by the plurality of graphic objects; and

third means for multiplexing the series of video and/or
25 audio PES packets and the PES packet including graphic objects in the unit of transport packet and then recording on a recording medium.

19. The apparatus of claim 18, wherein the plurality of

graphic objects are an object set that is to be displayed on a single video page.

20. The apparatus of claim 18, wherein the color control information includes a global palette table and a global
5 transparency array that defines transparent grade of every graphic object included in the PES packet.

21. The apparatus of claim 18, wherein said second means inserts a decoding time stamp (DTS) and a presentation time stamp (PTS) for the graphic objects while organizing the PES
10 packet with graphic objects.

22. The apparatus of claim 18, wherein said second means inserts time information on display start and end of any of the graphic objects while organizing the PES packet with graphic objects.

15 23. The recording medium of claim 18, wherein a structure for one of the graphic objects comprises an ID of object, an ID of actual image data, and actual image data.